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09/420,208	10/18/1999	SHANE HERMAN	2705-688	2479
20575 MARGER JOH	7590 12/12/200 INSON & MCCOLLO	EXAMINER		
210 SW MORRISON STREET, SUITE 400 PORTLAND, OR 97204			NGUYEN, CHAU T	
PORTLAND,	JR 97204		ART UNIT	PAPER NUMBER
			2176	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	09/420,208	HERMAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Chau Nguyen	2176	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet v	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>02 O</u>	<u>ctober 2007</u> .		
_	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal mat	ters, prosecution as to the merits is	
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.I). 11, 453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 54-75 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 54-75 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the original transfer of the Park Theorem 11) The oath or declaration is objected to by the Explanation is objected to by the Explanation is objected.	epted or b) objected to drawing(s) be held in abeyation is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in A ity documents have beer (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) s)/Mail Date nformal Patent Application 	

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/02/2007 has been entered. Claims 1-53 are cancelled. Claims 54-75 are pending.

Response to Arguments

2. Applicant's arguments with respect to claims 54-75 have been considered but are most in view of the new ground(s) of rejection below.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 54-55 and 57-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Devine et al. (Devine), US Patent No. 6,606,708 and further in view of Riggins, US Patent No. 7,287,271.

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5. As to independent claim 54, Devine discloses a method, comprising:

determining at a local server whether a user is authorized to access a remote server (col. 13, line 60 – col. 14, line 5: dispatcher server (local server) authenticates the user's access to the desired middle-tier service from mid-range server (remote server);

when the user is authorized, identify a privilege level associated with the user, the identified privilege level defining how the user is permitted to control an operating system running on the remote server (Abstract: providing for an identification of the user, and an identification of the user is who he/she claims to be and a determination of entitlements that the user may avail themselves of within the enterprise system; the entitlements represent specific services the user has subscribed and has privilege to access (col. 16, lines 44-54));

receiving at the local server one or commands from the user, the commands for controlling the operating system (col. 16, lines 60-66: the user is able to select a service or a request to run, and the service can be a command and control, read, write and modify files (col. 27, lines 2-9));

filtering the commands received at the local server according to a verification of whether the received commands correspond to the identified privilege level for the user (col. 14, lines 6-32: the dispatcher receiving the requests from the user, the request then is examined, revealing the user and the target middle-tier service for the request, and performing validation, making sure that the user Is entitle to communicate with the desired service); and

sending messages that represent the filtered commands from the local server, over the packet switch network, and to the remote server when the commands correspond to the identified privilege level (col. 14, lines 6-32: managing the communication of the specific customer request with the middle-tier server to actually get the request serviced).

However, Devine does not explicitly disclose identify at the local server a privilege level associated with the user.

In the same field of endeavor, Riggins discloses the user must first obtain authorization from the global server (local server), and once authenticated, the global server 106 provides the user with access to the services, and varying levels of access to services will be granted based on varying strengths of identification and authentication (col. 4, lines 24-34).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Riggins with Devine to include identify at the local server a privilege level associated with the user for the purpose of controlling access to services, logging use of keys and logging access of resources.

6. As to dependent claim 55, Devine discloses logging into the remote server prior to sending the messages, said login conducted using an operating system level account that is selected independently of the user (col. 16, lines 15-21).

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7. As to dependent claim 57, Divine discloses wherein the commands are

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generated in response to the user making selections on one or more web pages

displayed by a client system (col. 16, lines 54-66).

8. As to dependent claim 58, Devine discloses wherein the messages cause the

remote server to download files to a client system separate from the remote server (col.

5, line 62 – col. 6, line 7).

9. As to dependent claim 59, Devine discloses wherein the client system is a same

client system that originates the commands (col. 5, line 62 – col. 6, line 7).

10. Claim 56 is rejected under 35 U.S.C. 103(a) as being unpatentable over Devine

and Riggins as applied to claims 54-55 and 57-59 above, and further in view of Booth,

US Patent No. 6,345,307.

11. As to dependent claim 56, Devine and Riggins, however, does not explicitly

disclose wherein the messages are sent using a transfer protocol that operates

independently of HyperText Transfer Protocol (HTTP) capability on the remote server

and that operates independently of TELecommunications NETwork (TELNET) capability

on the remote server.

Booth discloses a proxy server is a type of gateway that allows a browser using

HTTP to communicate with a server that does not understand HTTP, but which uses

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FTP; the proxy server accepts HTTP requests from the browser and translates them

into a format that is suitable for the origin server such as an FTP request (col. 1, lines

34-45), and thus this implies the requests are sent using a transfer protocol FTP that

operates independently of HyperText Transfer Protocol (HTTP) capability on the remote

server and that operates independently of TELecommunications NETwork (TELNET)

capability on the remote server.

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to combine the teachings of Booth and Devine to include the

messages are sent using a transfer protocol that operates independently of HyperText

Transfer Protocol (HTTP) capability on the remote server and that operates

independently of TELecommunications NETwork (TELNET) capability on the remote

server for the purpose of enhancing communications between users and servers that do

not have the same protocols.

12. Claims 60-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Devine and Riggins as applied to claims 54-55 and 57-59 above, and further in view of

Lomet et al. (Lomet), US Patent No. 6,182,086.

13. As to dependent claim 60, Devine and Riggins, however, do not explicitly

disclose the local server creating a session log entry that identifies the commands

represented by the messages, the session log entry containing information allowing a

system administrator to undo transactions performed on the remote server.

Lomet discloses server 54 generates a log record for each of its own write operation on database objects (col. 10, lines 35-41). Lomet further discloses the server can undo a request and re-execute it all over again when the client re-submits the request (col. 10, line 59 - col. 11, line 2).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Lomet with Devine and Riggins to include the local server creating a session log entry that identifies the commands represented by the messages, the session log entry containing information allowing a system administrator to undo transactions performed on the remote server. The motivation for creating log record is to provide undo recovery with incomplete requests/commands.

14. As to dependent claim 61, Devine and Riggins disclose wherein the transactions alter a file system stored on the server (Devine, col. 27, lines 2-5: determining authorization for command and control, read, write, and modify files).

However, Devine and Riggins do not explicitly disclose the session log entry allows the system administrator to rebuild the file system.

Lomet discloses when restarting after a server failure, the server performs analysis pass over log file by rebuilding the active application table (file system) (col. 15, line 60 - col. 16, line 12).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Lomet with Devine and Riggins to

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include the session log entry allows the system administrator to rebuild the file system

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for the purpose of recovering failed server.

15. Claims 62-64, 66, and 69-75 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Devine et al. (Devine), US Patent No. 6,606,708 in view of Riggins,

US Patent No. 7,287,271, and further in view of Brown et al. (Brown), US Patent No.

5,941,947.

16. As to independent claims 62 and 72, Devine discloses a system, comprising:

a content server having configured thereon an Operating System (OS), the OS

capable of provisioning OS level accounts that define levels of administrative privileges

for users (col. 13, line 60 - col. 14, line 5: dispatcher server (content server)

authenticates the user's access to the desired middle-tier service from mid-range server

(remote server); Abstract: providing for an identification of the user, and an identification

of the user is who he/she claims to be and a determination of entitlements that the user

may avail themselves of within the enterprise system; the entitlements represent

specific services the user has subscribed and has privilege to access (col. 16, lines 44-

54));

one or more central server to function as a trusted proxy for the content server by

remotely administering privilege management for the content server (col. 13, line 60 –

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col. 14, line 5: dispatcher server (central server) authenticates the user's access to the desired middle-tier service from mid-range server (content server));

the central servers to receive an access request from one of the remote users, to determine whether the remote user is authorized to access the content server, and when the remote user is authorized to access the content server, to select a level of administrative privileges according to the remote user (col. 13, line 60 – col. 14, line 5: dispatcher server (central server) authenticates the user's access to the desired middle-tier service from mid-range server (content server); Abstract: providing for an identification of the user, and an identification of the user is who he/she claims to be and a determination of entitlements that the user may avail themselves of within the enterprise system; the entitlements represent specific services the user has subscribed and has privilege to access (col. 16, lines 44-54)); and

the central servers to receive, from an endpoint for the remote user, commands for controlling the content server, to filter the received commands according to the selected level of administrative privileges, and to forward the filter commands to the content server (col. 16, lines 60-66: the user is able to select a service or a request to run, and the service can be a command and control, read, write and modify files (col. 27, lines 2-9); the dispatcher receiving the requests from the user, the request then is examined, revealing the user and the target middle-tier service for the request, and performing validation, making sure that the user Is entitle to communicate with the desired service (col. 14, lines 6-32); managing the communication of the specific

customer request with the middle-tier server to actually get the request serviced (col. 14, lines 6-32).

However, Devine does not explicitly disclose different level accounts that defines different levels of administrative privileges for different users.

In the same field of endeavor, Riggins discloses the user must first obtain authorization from the global server (local server), and once authenticated, the global server 106 provides the user with access to the services, and varying levels of access to services will be granted based on varying strengths of identification and authentication of users(col. 4, lines 24-34).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Riggins with Devine to include different level accounts that defines different levels of administrative privileges for different users for the purpose of controlling access to services, logging use of keys and logging access of resources.

Devine and Riggins, however, do not explicitly disclose the content server having established thereon a single OS account for allowing accessing to a plurality of remote users, the single OS level account associated a same level of administrative privileges for the remote users.

In the same field of endeavor, Brown discloses access rights data is stored within the relational database association with multiple user group identifiers, which identify user groups (col. 3, lines 12-20). Brown further discloses upon receiving a user-specific access rights query, the security server (content server) accesses the group-member

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table to identify all user groups of which the specified user is a member (col. 4, lines 40-65).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Brown with Devine and Riggins to include storing access rights data primarily on a per-user-group basis, rather than separately storing the access rights of each individual user. The motivation for the use of user groups is to reduce the quantity of access rights data that needs to be stored.

17. As to dependent claim 63, Devine and Riggins disclose the central servers impose differing restrictions on the remote users through command filtering (Devine, Abstract: providing for an identification of the user, and an identification of the user is who he/she claims to be and a determination of entitlements that the user may avail themselves of within the enterprise system; the entitlements represent specific services the user has subscribed and has privilege to access (col. 16, lines 44-54)).

However, Devine and Riggins do not explicitly disclose wherein the single OS level account is a generic account that does not restrict administrative privileges.

In the specification, Applicant describes "this generic entry is assigned to multiple users" (see page 13, lines 20-23). In the same field of endeavor, Brown discloses access rights data is stored within the relational database association with multiple user group identifiers, which identify user groups (col. 3, lines 12-20). Brown further discloses upon receiving a user-specific access rights query, the security server

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accesses the group-member table to identify all user groups of which the specified user is a member (col. 4, lines 40-65).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Brown with Devine and Riggins to include storing access rights data primarily on a per-user-group basis, rather than separately storing the access rights of each individual user. The motivation for the use of user groups is to reduce the quantity of access rights data that needs to be stored.

18. As to dependent claim 64, Devine and Riggins, however, do not explicitly disclose wherein the central servers are logged onto the content server under the single OS level account when forwarding the filtered commands for the different users.

Brown discloses a request is generated on the client and sent to the gateway (central server) that is handling the logon session, the gateway then selects a single application server (content server) to handle the service session, and throughout the service session, the gateway routes messages between the client and the application server as the client and server portions of the service application communicate (col. 9, lines 12-32).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Brown with Devine and Riggins to include the central servers are logged onto the content server under the single OS level account when forwarding the filtered commands for the different users. The motivation

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for the use of user groups is to reduce the quantity of access rights data that needs to

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be stored.

19. As to dependent claim 66, Devine discloses the central server send a notification

to the remote user when one of the commands is filtered, the notification indicating that

the remote user does not have a requisite level of administrative privileges to control the

content server using the filtered command (col. 17, lines 5-22).

20. As to dependent claim 69, Devine discloses wherein the received commands are

for creating files and directories, editing files and directories, or removing files and

directories (col. 27, lines 1-5).

21. As to dependent claim 70, Devine discloses wherein a file structure on the

content server is manipulated according to the forwarded commands (col. 27, lines 1-5).

22. As to dependent claim 71, Devine discloses wherein the operating system is an

embedded operation system (col. 5, line 62 – col. 6, line 7).

23. As to dependent claim 73, Devine discloses wherein the apparatus offloads, from

the server, managing which of the different users are able to control which functionality

of the OS (col. 14, lines 6-37).

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24. As to dependent claims 74-75, Devine and Riggins do not explicitly disclose wherein the apparatus allows the different users to control the OS independently of whether a password for logging into the OS is provided to the users, and wherein the apparatus allows the server to maintain only a single OS level account and password regardless of the number of remote users.

In the same field of endeavor, Brown discloses access rights data is stored within the relational database association with multiple user group identifiers, which identify user groups (col. 3, lines 12-20). Brown further discloses upon receiving a user-specific access rights query, the security server (content server) accesses the group-member table to identify all user groups of which the specified user is a member (col. 4, lines 40-65).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Brown with Devine and Riggins to include storing access rights data primarily on a per-user-group basis, rather than separately storing the access rights of each individual user. The motivation for the use of user groups is to reduce the quantity of access rights data that needs to be stored.

25. Claim 65 is rejected under 35 U.S.C. 103(a) as being unpatentable over Devine et al. (Devine), US Patent No. 6,606,708 in view of Riggins, US Patent No. 7,287,271, and further in view of Brown et al. (Brown), US Patent No. 5,941,947 as discussed in claims 62-64, 66, and 69-75 above, and further in view of Booth, US Patent No. 6,345,307.

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26. As to dependent claim 65, Devine, Riggins and Brown, however, do not disclose wherein the commands are generated by the remote user interacting with a web browser and are formatted as HyperText Transfer Protocol (HTTP) requests, and the server forwards the commands using an File Transfer Protocol (FTP) format.

Booth discloses a proxy server is a type of gateway that allows a browser using HTTP to communicate with a server that does not understand HTTP, but which uses FTP; the proxy server accepts HTTP requests from the browser and translates them into a format that is suitable for the origin server such as an FTP request (col. 1, lines 34-45), and thus this implies the requests are sent using a transfer protocol FTP that operates independently of HyperText Transfer Protocol (HTTP) capability on the remote server and that operates independently of TELecommunications NETwork (TELNET) capability on the remote server.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Booth with Devine, Riggins and Brown to include the messages are sent using a transfer protocol that operates independently of HyperText Transfer Protocol (HTTP) capability on the remote server and that operates independently of TELecommunications NETwork (TELNET) capability on the remote server for the purpose of enhancing communications between users and servers that do not have the same protocols.

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27. Claims 67-68 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Devine et al. (Devine), US Patent No. 6,606,708 in view of Riggins, US Patent No.

7,287,271, and further in view of Brown et al. (Brown), US Patent No. 5,941,947 as

discussed in claims 62-64, 66, and 69-75 above, and further in view of Lomet et al.

(Lomet), US Patent No. 6,182,086.

28. As to dependent claim 67, Devine, Riggins and Brown, however, do not disclose

wherein the content server performs transactions according to the forwarded commands

and the system further comprises:

the central server to create one or more session log entries that identify the

forwarded commands, the session log entries containing information allowing a system

administrator to undo the transactions.

Lomet discloses server 54 generates a log record for each of its own write

operation on database objects (col. 10, lines 35-41). Lomet further discloses the server

can undo a request and re-execute it all over again when the client re-submits the

request (col. 10, line 59 - col. 11, line 2).

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to combine the teachings of Lomet with Devine, Riggins and Brown

to include the local server creating a session log entry that identifies the commands

represented by the messages, the session log entry containing information allowing a

system administrator to undo transactions performed on the remote server. The

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motivation for creating log record is to provide undo recovery with incomplete requests/commands.

29. As to dependent claim 68, Devine, Riggins and Brown disclose wherein the transactions alter a file system stored on the server (Devine, col. 27, lines 2-5: determining authorization for command and control, read, write, and modify files).

However, Devine, Riggins and Brown do not explicitly disclose the session log entry allows the system administrator to rebuild the file system.

Lomet discloses when restarting after a server failure, the server performs analysis pass over log file by rebuilding the active application table (file system) (col. 15, line 60 - col. 16, line 12).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Lomet with Devine, Riggins and Brown to include the session log entry allows the system administrator to rebuild the file system for the purpose of recovering failed server.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chau Nguyen whose telephone number is (571) 272-

4092. The Examiner can normally be reached on Monday-Friday from 8:30 am to 5:30

pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

supervisor, Doug Hutton, can be reached at (571) 272-4137.

The fax phone number for the organization where this application or proceeding is

assigned is 703-872-9306. On July 15, 2005, the Central Facsimile (FAX) Number will

change from 703-872-9306 to 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Chau Nguyen Patent Examiner

Art Unit 2176

|Doug Hutton| Doug Hutton

Supervisory Primary Examiner

Technology Center 2100